

CONSTRUCTION SUPERVISION

Facility Maintenance

Occupational Skills Award

This OSA was created for students interested in a career as a facility maintenance worker, as well as those currently working in a building trades-related profession who want to expand their proficiencies. This program provides training on basic electrical systems, construction and air conditioning in the commercial and residential setting. Students can continue for an Electrician Assistant, Construction Supervision Assistant, or Heating, Ventilation, Air Conditioning and Refrigeration Technology Certificate.

Construction Supervision Assistant

Certificate

The Construction Supervision Assistant Certificate program will prepare students to serve as assistants to a construction supervisor or project manager. The skills acquired will prepare the student to assist a Construction Manager, Project Manager or Superintendent in the supervision and management of projects related to construction of commercial, industrial, residential buildings, engineering projects like roads, bridges and utility systems. Construction includes both new construction and remodeling, additions, maintenance and repairs. The student will focus on acquiring the skills necessary to assist in the monitoring of construction processes to include but not limited to, construction safety, construction estimating, building codes and inspections and construction management duties.

Graduates of the program will be prepared for entry level positions such as junior estimator, assistant of construction superintendents, program managers and/ or general contractors.

Construction Supervision

Associate of Applied Science

The Construction Supervision program will prepare students for supervision and management careers related to construction of commercial, industrial, residential buildings, engineering projects like roads, bridges and utility systems. Construction includes both new construction and remodeling, additions, maintenance and repairs.

The Construction Supervision student will focus on acquiring the skills necessary to monitor, direct and conduct supervision processes to include but not limited to construction safety, planning, scheduling, coordinating, estimating, construction tools and techniques, and supervising all or part of the construction activities. Additionally, students will develop skills in hiring and oversight of specialty trade contractors, accessing risk and safety factors on site.

Graduates of the program will be prepared for entry level positions such as assistant construction superintendent, junior estimator, program manager or general contractor for property owners, developers or construction management firms.

Program Learning Outcomes

Certificate

1. Graduates will be able to apply building codes and the necessary skills to inspect construction projects.
2. Graduates will be able to interpret construction plans and specifications related to construction projects.
3. Graduates will be able to prepare estimates for construction projects.

Associate of Applied Science

1. Graduates will be able to demonstrate safety practices and procedures to oversee a construction site.
2. Graduates will be able to apply supervisory and management skills.
3. Graduates will be able to prepare estimates for construction projects.
4. Graduates will be able to apply building codes and the necessary skills to inspect construction projects.
5. Graduates will be able to interpret construction plans and specifications related to construction projects.

Advisory Committee Members

Manny Gonzalez, Regional Manager, McCoy's Lumber Pharr

Isaac Smith, Co-Owner, Matt's Building Materials

Ruby Melgoza, Manager, Brex Commercial Doors

Lydia Rodriguez, Project Manager, PMSI

Efrain Gomez, Owner, Gomez 3 Construction

Ronnie Cavazos, Owner, Structure Team

Eddie Rodriguez, Project Manager, D. Wilson Construction

Jose Robledo, Owner, Armored Painting

Occupational Skills Award

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Certificate

- Construction Supervision Assistant (p. 1)

Associate Degree

- Construction Supervision Associate of Applied Science (p. 2)

Facility Maintenance Occupational Skills Award

TSI Exempt

Course	Title	Credit Hours
Fall		
CNBT 1418	Construction Tools and Techniques	4
ELPT 1429	Residential Wiring	4
HART 1410	HVAC Shop Practices and Tools	4
Credit Hours		12
Total Credit Hours		12

Construction Supervision Assistant Certificate

TSI Exempt

Course	Title	Credit Hours
Fall		
CNBT 1210	Basic Construction Safety	2
CNBT 1411	Construction Materials and Methods I	4
CNBT 1400	Residential and Light Commercial Construction Drawings	4

CNBT 1342	Building Codes and Inspections	3
Credit Hours		13
Spring		
CNBT 2442	Construction Management I ¹	4
CNBT 1446	Construction Estimating I	4
CNBT 1402	Mechanical, Electrical & Plumbing Systems in Construction I	4
CNBT 1315	Field Engineering I	3
Credit Hours		15
Total Credit Hours		28

¹ Capstone: Successfully passing CNBT 2442 Construction Management I.

Construction Supervision Associate of Applied Science

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Course	Title	Credit Hours
First Year		
Fall		
CNBT 1210	Basic Construction Safety	2
CNBT 1411	Construction Materials and Methods I	4
CNBT 1400	Residential and Light Commercial Construction Drawings	4
CNBT 1342	Building Codes and Inspections	3
Credit Hours		13
Spring		
CNBT 2442	Construction Management I	4
CNBT 1446	Construction Estimating I	4
CNBT 1402	Mechanical, Electrical & Plumbing Systems in Construction I	4
CNBT 1315	Field Engineering I	3
Credit Hours		15
Summer		
PSYC 2301 or SOCI 1301	General Psychology ¹ or Introductory Sociology	3
Math Elective ¹		3-4
Credit Hours		6-7
Second Year		
Fall		
CNBT 2317	Green Building	3
CNBT 1459	Project Scheduling	4
CNBT 2344	Construction Management II	3
CNBT 1418	Construction Tools and Techniques	4
Credit Hours		14
Spring		
CNBT 1380	CAPSTONE: Cooperative Education	3
Humanities Elective ¹		3
COSC 1301	Introduction to Computing ¹	3
ENGL 1301	Composition I ¹	3
Credit Hours		12
Total Credit Hours		60-61

¹ Identifies courses to fulfill minimum 15 credit hour General Education requirement.